



Precision Incorporated
8404 Sterling Street, Suite A,
Irving, TX 75063 USA
Tel: (214) 929-4888
Fax: (214) 929-1655

Precision Software Limited
6 Park Terrace, Worcester Park,
Surrey KT4 7JZ England
Tel: 01-330 7166
Fax: 01-330 2089
Telex: 8955021 PRECIS G

© Copyright Precision Software Ltd 1988

TIME COMMAND

<name,length[,start[,row]]

name Job name: text in quotes or a reference to a cell containing text
length Job length: number of columns (any expression resulting in a numeric value).
start Job start: number of column (any expression resulting in a numeric value).
row Job row: number of row (any expression resulting in a numeric value).

GRAPH COMMANDS

Graph Type Commands

Individual Pie Charts PIA/PIB/PIC/PID [Fn] [Sn] [Cn] [Qn] [AS]
2nd cell: [pie name]
3rd cell: [ratio]

Common Pie Charts PI2/PI3/PI4 [Fn] [Sn] [Cn] [Qn] [AS]
2nd cell: *blank*
3rd, 4th, 5th and 6th cells: [pie names]

Pie Segment Data [max 10] PIE [Hn] [Tn] [Cn] [PO/PI/PN] [EX]
2nd cell: [segment name]
3rd, 4th, 5th and 6th cells: *segment values*

Bar Chart BVS/BVC/BV%/BHS/BHC/BH% [Fn] [Sn] [Cn] [AN] [3D] [LB] [Ln] [Tn] [Qn]
2nd cell: [bar width]
3rd cell: [cluster overlap]

Bar Data [max 10] BAR [Hn] [Tn] [Cn] [Qn] [YL/YR]
2nd cell: [bar name]
3rd, 4th, 5th, . . cells: *bar values*

Gantt Chart GNT [Fn] [Sn] [Cn] [AN] [Ln] [Tn] [Qn] [EX]

Gantt Row Data [max 128] GAN [Hn] [Tn] [Cn] [Qn]
2nd cell: [row name]
3rd, 4th, 5th, . . cells: *time commands*

Jobs [max 128] JOB [Fn] [Sn] [Cn] [Hn] [Tn] [Qn]
2nd cell: *job name*

Area Graph [max 10] ARE [Ln] [Tn] [Cn] [YL/YR]
2nd cell: [area name]
3rd, 4th, 5th, . . cells: *area values*

Line, Step and Tick Graphs [max 10] LIN/STP/TIL/TIR [Ln] [Tn] [Cn] [YL/YR]
2nd cell: [line name]
3rd, 4th, 5th, . . cells: *graph values*

Scattergram [max 10] SCT [Rn] [Fn] [Sn] [Cn] [YL/YR]
2nd cell: [scatter name]
3rd, 4th, 5th, . . cells: *scatter values*

GRAPH COMMANDS

Spread Graph [max 10] 1st row: SPH/SPV [Hn/Ln] [Tn] [AN] [Fn] [Sn] [Cn] [YL/YR] [Qn]
2nd cell: [spread name]
3rd, 4th, 5th, . . cells: *high values*
2nd row: 1st and 2nd cells: *blank*
3rd, 4th, 5th, . . cells: *low values*

Axes Commands

Axes ACY/ACS/ACX [Fn] [Sn] [Cn] [JL/JC/JR] [Ln] [Tn] [Qn] [TO/TI/TC] [IN/NI] [LG]
2nd cell: [number of divisions]
3rd cell: [number of small divisions per large]
4th cell: [number of small divisions per label]

Axes Names NAX/NAY/NAS [Fn] [Sn] [Cn] [Ln] [Tn] [Qn] [JL/JC/JR]
2nd cell: *axis name*
3rd cell: [X co-ordinate]
4th cell: [Y co-ordinate]

Axes Limits ULY/ULS/ULX
2nd cell: *upper limit*
3rd cell: *lower limit*

Axes Labels LBA/LBB
2nd cell: *blank*
3rd, 4th, 5th, . . cells: *labels*

X-axis Values X-Y
2nd cell: *blank*
3rd, 4th, 5th, . . cells: *X axis values*

Text Commands

Titles TIA/TIB/TIC [Fn] [Sn] [Cn] [Ln] [Tn] [Qn] [JL/JC/JR]
2nd cell: *title*
3rd cell: [X co-ordinate]
4th cell: [Y co-ordinate]

Footnotes FNA/FNB [Fn] [Sn] [Cn] [Ln] [Tn] [Qn] [JL/JC/JR]
2nd cell: *footnote*
3rd cell: [X co-ordinate]
4th cell: [Y co-ordinate]

Annotation [max 128] ANN [Fn] [Sn] [Cn] [Ln] [Tn] [Qn] [JL/JC/JR]
2nd cell: *annotation*
3rd cell: *X co-ordinate*
4th cell: *Y co-ordinate*

Wordslides [max 128] WRD [Fn] [Sn] [Cn] [Ln] [Tn] [Qn] [JL/JC/JR]
2nd or 3rd or 4th . . cell: *text*

Tabs TAB
2nd, 3rd, 4th, . . cells: *tab values*

GRAPH COMMANDS

Other Commands

Legend LGD [Fn] [Sn] [Cn] [JL/JC/JR] [Pn] [BX] [Ln] [Tn] [Qn]
2nd cell: [X co-ordinate for P0]
3rd cell: [Y co-ordinate for P0]

Grids GRX/GRY [Cn] [Ln] [Tn] [Qn]
2nd cell: [number of minor divisions per major]

Graph Frame FRA [Ln] [Tn] [Cn]

Axes Box BOX [Ln] [Tn] [Cn]

Start and End of Data STA/END

Trigger TRG [Ln] [Tn] [Cn]
2nd cell: *trigger value*

Set Font and Colour SET [Fn] [Cn]

Command Modifiers

	Font FO-9	Line LO-9	Hatching HO-9	Marker RO-9
0	ABC abc	123		×
1	ABC abc	123		○
2	ABC abc	123		△
3	ABC abc	123		□
4	ABC abc	123		*
5	ABC abc	123		△
6	ABC abc	123		.
7	ABC abc	123		▽
8	ABC abc	123		#
9	ABC abc	123		☆

Size S0-9
Thickness T0-9
Colour CO-9, Q0-9
Marker R[any character].

Superplan™

SPREADSHEET TIME MANAGEMENT BUSINESS GRAPHICS

QUICK REFERENCE



Cell reference: column and row
Cell range: two diagonally opposite cell references separated by a fullstop (.) or colon (:)
Relative cell reference: lower case
Absolute cell reference: upper case plus /Global option set
Entry line limit: 254 characters

SPECIAL KEYS, AUTOS AND MACROS

Key	Auto and Macro Command	Function
	>MCR	Move cursor right
	>MCL	Move cursor left
	>MCU	Move cell cursor up, or switch between insert and overwrite on entry line
	>MCD	Move cell cursor down, or delete entry line character
HOME	>HOM	Move cursor to top left, or to start of entry line
END	>END	Move cursor to end of entry line
	PAGE LEFT >PGL	Move cursor left a page
	PAGE RIGHT >PGR	Move cursor right a page
PAGE DOWN	>PGD	Move cursor down a page
PAGE UP	>PGU	Move cursor up a page
	>ENT	Complete entry
ESC	>ESC	Cancel operation
BACKSPACE	>BAK	Delete character left
DEL	>DEL	Go up one level
	HELP >HLP	Get help
	FILES >FIL	Display directory
	RECALC	Recalculate worksheet
	VIEW	/View Screen

OPERATORS

x^y x to the y th power
 $x*y$ multiply
 x/y divide
 $x+y$ add
 $x-y$ subtract
 $x=y$ is 1 if x is equal to y , otherwise 0
 $x<y$ is 1 if x is less than y , otherwise 0
 $x>y$ is 1 if x is greater than y , otherwise 0
 $x<>y$ is 1 if x is not equal to y , otherwise 0
 $x<=y$ is 1 if x is less than or equal to y , otherwise 0
 $x>=y$ is 1 if x is greater than or equal to y , otherwise 0

SPECIAL KEYS, AUTOS AND MACROS

Auto and Macro Command	Function
>ALT <i>a</i>	ALT and any alphabetic key (<i>a</i> = A to Z)
>ALT <i>n</i>	ALT and any numeric key (<i>n</i> = 0 to 9)
>BEL	Keyboard beep
>CTRL <i>a</i>	CTRL and any alphabetic key (<i>a</i> = A to Z)
>FUN <i>n</i>	Function key <i>n</i> (<i>n</i> = 1 to 10)
>GPH <i>n</i>	Sets height of graph window to <i>n</i> pixels
>GPW <i>n</i>	Set width of graph window to <i>n</i> pixels
>GPX <i>n</i>	Graph window x co-ordinate
>GPY <i>n</i>	Graph window y co-ordinate
>IFF <i>filename</i>	Dump graph to <i>filename</i> on disk in ILBM format
>PON	Turn on Help and Prompt lines
>POF	Turn off Help and Prompt lines
>INP	Wait for keyboard input
>KEY	Wait until key pressed
>MES <i>message</i>	Display <i>message</i> on prompt line
>REP <i>n</i>	Repeat previous key <i>n</i> times (<i>n</i> = 1 to 99)
>REW	Start auto again
>RUN <i>range</i>	Run macro in <i>range</i>
>WAL <i>n</i>	Wait <i>n</i> seconds (<i>n</i> = 1 to 99)

Macro-only Command	Function
>CEL	Current cell reference
>DEC <i>cell</i>	Decrement contents of <i>cell</i>
>EOF	Disable ESC key
>EON	Enable ESC key
>ERR	Enters current error number
>ERT <i>range</i> \	Stores current error message in first cell of <i>range</i>
>HID <i>message</i> \	Hides screen activity and displays <i>message</i>
>IFT <i>condition</i> \	If <i>condition</i> true, continue; if <i>condition</i> false, go to next cell
>INC <i>cell</i>	Increment contents of <i>cell</i>
>MEN <i>range</i> \ <i>name</i>	Display menu called <i>name</i> stored in <i>range</i>
>QUIT	Quit macro and return to keyboard
>RET	Return to the calling macro
>SHO	Cancel >HID command
>SOF	Disable status line display
>SON	Enable status line display
>SUB <i>range</i> \	Call macro stored in <i>range</i>

FUNCTIONS

Mathematical Functions

COS(<i>value</i>)	Cosine (<i>value</i> in degrees)
SIN(<i>value</i>)	Sine (<i>value</i> in degrees)
TAN(<i>value</i>)	Tangent (<i>value</i> in degrees)
COSH(<i>value</i>)	Hyperbolic cosine
SINH(<i>value</i>)	Hyperbolic sine
TANH(<i>value</i>)	Hyperbolic tangent
ACOS(<i>value</i>)	Inverse cosine
ASIN(<i>value</i>)	Inverse sine
ATAN(<i>value</i>)	Inverse tangent
DEG(<i>value</i>)	Degrees (<i>value</i> in radians)
RAD(<i>value</i>)	Radians (<i>value</i> in degrees)
PI	3.1415926536
ABS(<i>value</i>)	Absolute of <i>value</i>
INT(<i>value</i>)	Integer of <i>value</i>
ROUND (<i>value</i> , <i>n</i>)	

E	Rounds <i>value</i> to <i>n</i> digits
EXP(<i>value</i>)	e (2.718281828459) to power of <i>value</i>
LN(<i>value</i>)	Natural logarithm (base e) of <i>value</i>
LOG(<i>value</i>)	Common logarithm (base 10) of <i>value</i>
SQRT(<i>value</i>)	Square root of <i>value</i>
RAND	Random number between 0 and 1

Logical Functions

TRUE	Returns 1
FALSE	Returns 0
AND(<i>values</i>)	1 if all <i>values</i> are non-zero, otherwise 0
OR(<i>values</i>)	1 if at least one <i>value</i> is non-zero, otherwise 0
NOT(<i>value</i>)	1 if <i>value</i> is 0, otherwise 0
IF(<i>cond-value</i> , <i>true-value</i> , <i>false-value</i>)	<i>true-value</i> if <i>cond-value</i> is non-zero; <i>false-value</i> if <i>cond-value</i> is zero
ERR	Returns ERR (error)
ISERR(<i>value</i>)	1 if <i>value</i> is ERR, otherwise 0
NA	Returns N/A (not available)
ISNA(<i>value</i>)	1 if <i>value</i> is N/A (not available), otherwise 0

Time Functions

(up to 10 *jobnames*, or ANY, for each function)

START(<i>jobnames,row/range</i>)	Column of first occurrence of <i>job(s)</i> , on <i>row</i> or within <i>range</i>
END(<i>jobnames,row/range</i>)	Column of last occurrence of <i>job(s)</i> , on <i>row</i> or within <i>range</i>
LENGTH(<i>jobnames,row/range</i>)	Number of cells occupied by <i>job(s)</i> , on <i>row</i> or within <i>range</i>
AFTER(<i>jobnames,row/range</i>)	Column following latest end of <i>job(s)</i> , on <i>row</i> or within <i>range</i> (also the Critical Path Analysis link function)
FLOAT (<i>jobnames,row/range</i>)	Number of cells of 'float' for <i>job(s)</i> , on <i>row</i> or within <i>range</i> (applicable only to Critical Path Analysis)
JNAME(<i>cell</i>)	Name of job in <i>cell</i>

FUNCTIONS

Calendar Functions

(*column* must give a numeric value)

TOD(<i>column</i>)	Time (hours and minutes) of <i>column</i>
DAY(<i>column</i>)	Day of the month (numeric) of <i>column</i>
MONTH(<i>column</i>)	Month (alphabetic) of <i>column</i>
YEAR(<i>column</i>)	Year of <i>column</i>
DOM(<i>column</i>)	Day and month of <i>column</i>
DOMOY(<i>column</i>)	Day, month and year of <i>column</i>
MOY(<i>column</i>)	Month and year of <i>column</i>
DOW(<i>column</i>)	Day of the week (alphabetic) of <i>column</i>
MON(<i>column</i>)	Month of <i>column</i>
NWEEK(<i>column</i>)	Week number of <i>column</i>
NDAY(<i>column</i>)	Day number of <i>column</i>
DATE(<i>date</i>)	Column containing <i>date</i>
TIME(<i>date,time</i>)	Column containing <i>date</i> and <i>time</i>

Statistical Functions

SUM(<i>values</i>)	Sum of numeric <i>values</i>
COUNT(<i>values</i>)	Number of numeric <i>values</i>
AVG(<i>values</i>)	Average of numeric <i>values</i>
MAX(<i>values</i>)	Maximum of numeric <i>values</i>
MIN(<i>values</i>)	Minimum of numeric <i>values</i>

Database Functions

(*field* may be a field *offset* or a field *name*)

DSUM (<i>input,criterion,field</i>)	Sum of numeric values in <i>fields</i> of selected records
DCOUNT(<i>input,criterion,field</i>)	Number of numeric values in <i>fields</i> of selected records
DAVG(<i>input,criterion,field</i>)	Average of numeric values in <i>fields</i> of selected records
DMAX(<i>input,criterion,field</i>)	Maximum of numeric values in <i>fields</i> of selected records
DMIN(<i>input,criterion,field</i>)	Minimum of numeric values in <i>fields</i> of selected records

Financial Functions

IRR(<i>guess,values</i>)	Internal rate of return
NPV(<i>rate,values</i>)	Net present value
FV(<i>payment,rate,term</i>)	Future value
PV(<i>payment,rate,term</i>)	Present value
PMT(<i>principal,rate,term</i>)	Mortgage payment

Special Functions

COL	Number of <i>column</i>
NCOL(<i>column</i>)	Number of <i>column</i> (alphabetic)
ROW	Number of row
CHOOSE(<i>n,values</i>)	Returns <i>n</i> th <i>value</i>
LOOKUP (<i>value</i> , <i>range</i> , <i>offset</i>)	Returns value adjacent or <i>offset</i> to <i>value</i> in <i>range</i>
JDAY(<i>value</i>)	Julian day, month and year
JDATE(<i>date</i>)	Julian number of <i>date</i>
TODAY	Operating system date
TELTIM	Operating system time

SLASH COMMANDS

/Auto	
Show	List all auto commands
Edit	Create/Edit auto command
Delete	Delete auto command
/Blank	Blank the contents of one or more cells
/Calendar	
Options	Specify time units, working week and calendar start date
Link	Define timesheet link date
Edit	Edit the monthly calendar and the working day
Clear	Remove timesheet link and reset calendar to defaults
/Delete	Delete one or more rows or columns
/Edit	Change the contents of the current cell
/Format	Define display format and colour of cell, cell block, row, column or worksheet
/Global	Define various global options: Relative/absolute cell reference adjustment Relative to absolute cell reference conversion Manual/Automatic recalculation Row-by-row/column-by-column/natural order recalculation Border display on/off Protected cells available/not available Graphics commands display on/off Decimal point/comma
/Heading	Define one or more rows and/or columns as headings
/Insert	Insert one or more blank rows or columns
/Join	
Show	List all links with other worksheets
Add	Create a link with another worksheet
Delete	Delete a link with another worksheet
/Kritical	
Path	Calculate and display the critical path
Free Float	Calculate and display the critical path and free floats
Total Float	Calculate and display the critical path and total floats
Range	Define the critical path range
Clear	Clear critical path
/Load	Load a disk file (various formats) into the worksheet
/Move	Move the current row, column or range to another position
/Name	
Show	List all names of cells or cell blocks
Add	Name a cell or cell block

SLASH COMMANDS

Delete	Delete the name of a cell or cell block
/Output	
Printer	Print Worksheet data or expressions and formulas
Disk	Output worksheet data to a disk file
Configure	Set printer type and options
/Protect	
Protect	Protect one or more cells from change
Unprotect	Remove protection from one or more cells
/Quit	Leave Superplan and return to operating system SAVE YOUR WORK FIRST!
/Replicate	Make one or more regular or orthogonal copies of one or more cells
/Save	Save worksheet in a Superplan, DIF, Lotus, or dBase II/III disk file
/Table	
Query	Find, copy or delete selected records from a database
Arrange	Sort rows of cell block according to 'key' column
Fill	Fill a cell block with a sequence of numbers
What-if	Create a table showing results of changes in the value of one or two cells
Load	Load selected part of a dBase file
/Utilities	
Status	Display memory usage
Directory	List a disk file directory
Copy	Copy a disk file
Rename	Rename a disk file
Erase	Delete a disk file
Prefix	Define a common prefix for all filenames
/View	
Screen	Display graph on screen
Print	Print graph on a printer
Draw	Draw graph on a plotter
Range	Specify the current graphics range
Window	Specify the graphics windows
Colour	Examine the screen, printer and plotter colour tables
Options	Specify the screen, printer and plotter type and options
/Window	Split screen into two windows; display expressions
/Xecute	
Boundary	Define a worksheet boundary and password
Learn	Enter macros automatically
Step	Execute autos and macros step by step
/Zap	Clear worksheet of all data SAVE YOUR WORK FIRST!